

AMENDMENTSIn the Claims

Claims 1-31 (Canceled).

Claim 32 (Currently Amended): A transgenic monocot plant selected from the group consisting of barley and wheat wherein at least a part of said plant comprises a recombinant nucleic acid comprising a promoter active in said part operably linked to a nucleic acid encoding a thioredoxin h polypeptide wherein said promoter is a seed or grain maturation-specific promoter and said thioredoxin h polypeptide is selected from the group consisting of barley, rice, *Arabidopsis*, soybean, wheat, tobacco and Brassica thioredoxins.

Claim 33 (Original): The transgenic plant of claim 32 wherein said part is a seed.

Claim 34 (Original): The transgenic plant of claim 32 wherein said part is a grain.

Claim 35 (Canceled).

Claim 36 (Original): The transgenic plant of claim 32 wherein said promoter selected from the group consisting of rice glutelins, rice oryzins, rice prolamines, barley hordcins, wheat gliadins, wheat glutenins, maize zeins, maize glutelins, oat glutelins, sorghum kafirins, millet pennisetins, rye secalins, and maize embryo-specific globulin promoters.

Claim 37 (Original): The transgenic plant of claim 36 wherein said barley hordein promoter is selected from the group consisting of B-1 hordein and D-hordein promoters.

Claim 38 (Currently Amended): The transgenic plant of claim 32 wherein said monocot plant is ~~selected from the group consisting of rice, barley, maize, wheat, oat, rye, sorghum, millet, triticale, turfgrass and forage grass.~~

Claim 39 (Canceled).

Claim 40 (Previously Presented): The transgenic plant of claim 32 wherein said thioredoxin h is selected from the group consisting of barley, wheat and rice thioredoxin h.

Claim 41 (Previously Presented): The transgenic plant of claim 32 wherein said recombinant nucleic acid further comprises a nucleic acid encoding a signal peptide operably linked to said promoter and said nucleic acid molecule encoding a thioredoxin h protein.

Claim 42 (Previously Presented): The transgenic plant of claim 41 wherein said signal peptide targets expression of the thioredoxin h polypeptide to an intracellular body.

Claim 43 (Original): The transgenic plant of claim 42 wherein said signal peptide is selected from the group consisting of B-1 hordein and D-hordein signal peptides.

Claims 44-76 (Canceled).

Claim 77 (Currently Amended): A transgenic monocot seed or grain selected from the group consisting of barley and wheat comprising a recombinant nucleic acid comprising a promoter active in said seed or grain operably linked to a nucleic acid molecule encoding a barley, rice, *Arabidopsis*, soybean, wheat, tobacco, or Brassica thioredoxin h polypeptide wherein said promoter is a seed or grain maturation-specific promoter.

Claim 78 (Canceled).

Claim 79 (Original): The transgenic seed or grain of claim 77 wherein said promoter is selected from the group consisting of rice glutelins, rice oryzins, rice prolamines, barley hordeins, wheat gliadins, wheat glutenins, maize zeins, maize glutelins, oat glutelins, sorghum kafirins, millet pennisetins, rye secalins, and maize embryo-specific globulin promoters.

Claim 80 (Original): The transgenic seed or grain of claim 77 wherein said barley hordein promoter is selected from the group consisting of B-1 hordein and D-hordein promoters.

Claim 81 (Currently Amended): The transgenic seed or grain of claim 77 wherein said seed or grain is ~~selected from the group consisting of rice, barley, maize, wheat, oat, rye, sorghum, millet, and triticale seed or grain.~~

Claim 82 (Canceled).

Claim 83 (Previously Presented): The transgenic seed or grain of claim 77 wherein said thioredoxin h is selected from the group consisting of barley, wheat, and rice thioredoxin h.

Claim 84 (Previously Presented): The transgenic seed or grain of claim 77 wherein said recombinant nucleic acid further comprises a nucleic acid encoding a signal peptide operably linked to said promoter and said nucleic acid molecule encoding a thioredoxin h protein.

Claim 85 (Previously Presented): The transgenic seed or grain of claim 84 wherein said signal peptide targets expression of the thioredoxin h polypeptide to an intracellular body.

Claim 86 (Original): The transgenic seed or grain of claim 85 wherein said signal peptide is selected for the group consisting of B-1 hordein and D-hordein signal peptides.

Claims 87-117 (Canceled).

Claim 118 (Previously Presented): The transgenic plant of claim 38 wherein said plant is wheat.

Claim 119 (Previously Presented): The transgenic plant of claim 118 wherein said thioredoxin is wheat thioredoxin h.

Claims 120-133 (Canceled).

Claim 134 (Previously Presented): The transgenic seed or grain of claim 81 wherein said seed or grain is barley.

Claim 135 (Previously Presented): The transgenic seed or grain of claim 134 wherein said thioredoxin is barley thioredoxin *h*.

Claims 136-137 (Canceled).

Claim 138 (Previously Presented): The transgenic seed or grain of claim 81 wherein said seed or grain is wheat.

Claim 139 (Previously Presented): The transgenic seed or grain of claim 138 wherein said thioredoxin is wheat thioredoxin *h*.

Claims 140-149 (Canceled).

Claim 150 (Previously Presented): The transgenic plant of claim 32 wherein said thioredoxin is *Arabidopsis* thioredoxin *h*.

Claim 151 (Previously Presented): The transgenic plant of claim 32 wherein said thioredoxin is soybean thioredoxin *h*.

Claim 152 (Previously Presented): The transgenic monocot seed or grain of claim 77 wherein said thioredoxin is *Arabidopsis* thioredoxin *h*.

Claim 153 (Previously Presented): The transgenic monocot seed or grain of claim 77 wherein said thioredoxin is soybean thioredoxin *h*.

Claim 154 (Previously Presented): The transgenic plant of claim 32 wherein said thioredoxin is tobacco thioredoxin *h*.

Claim 155 (Previously Presented): The transgenic plant of claim 32 wherein said thioredoxin is *Brassica* thioredoxin *h*.

**Claim 156 (Previously Presented):** The transgenic monocot seed or grain of claim 77 wherein said thioredoxin is tobacco thioredoxin *h*.

**Claim 157 (Previously Presented):** The transgenic monocot seed or grain of claim 77 wherein said thioredoxin is brassica thioredoxin *h*.